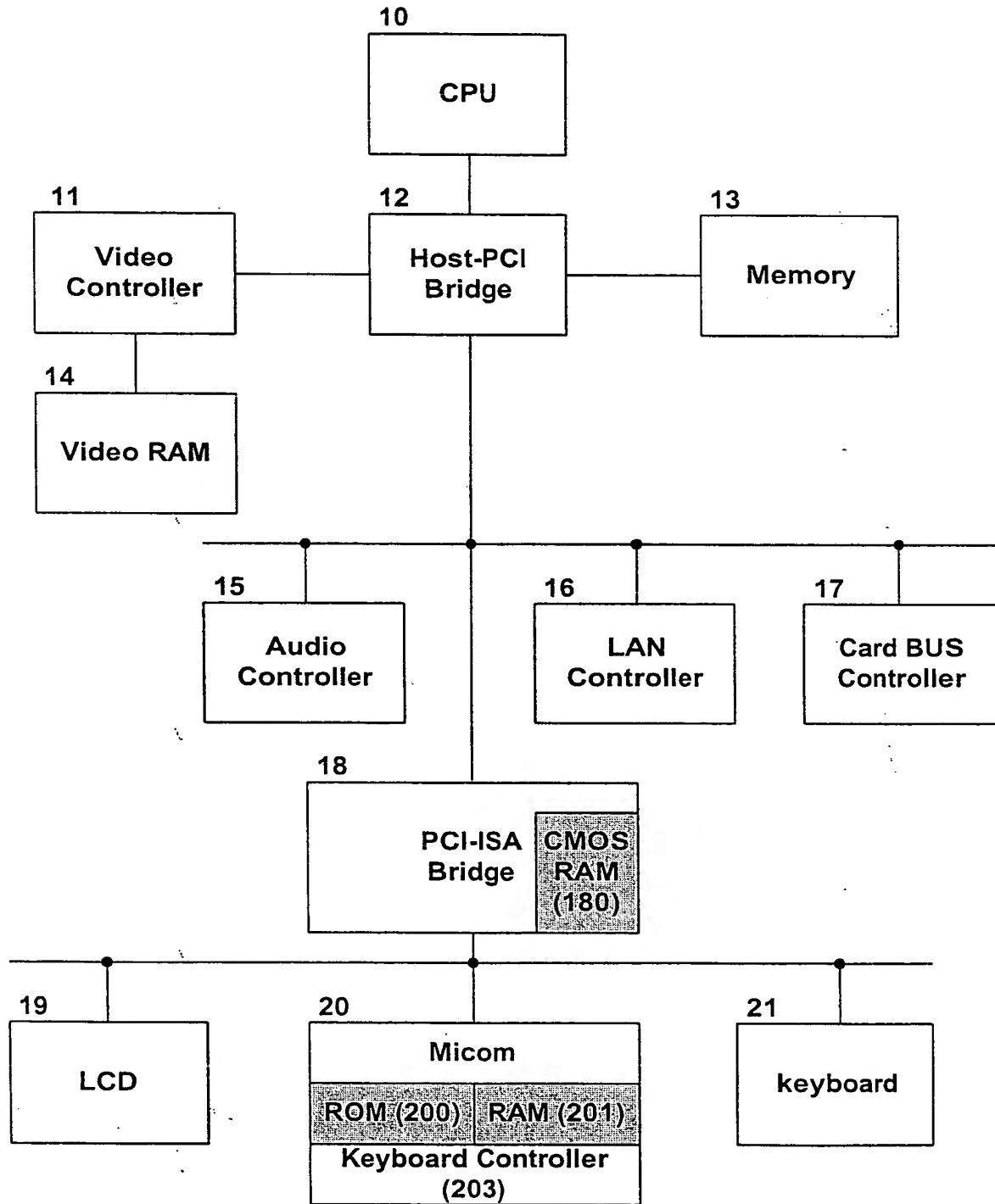
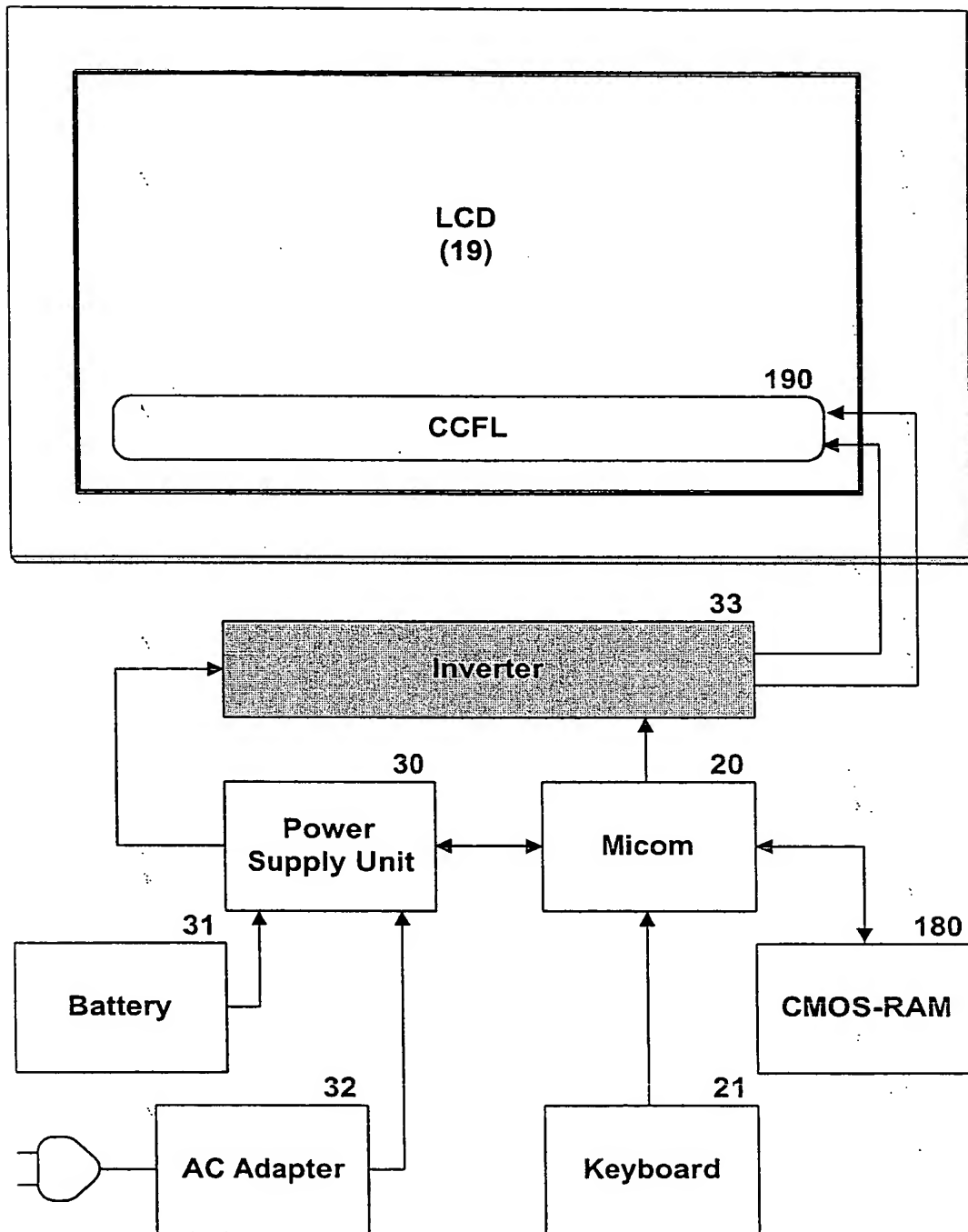


**FIG. 1**  
**(Related Art)**



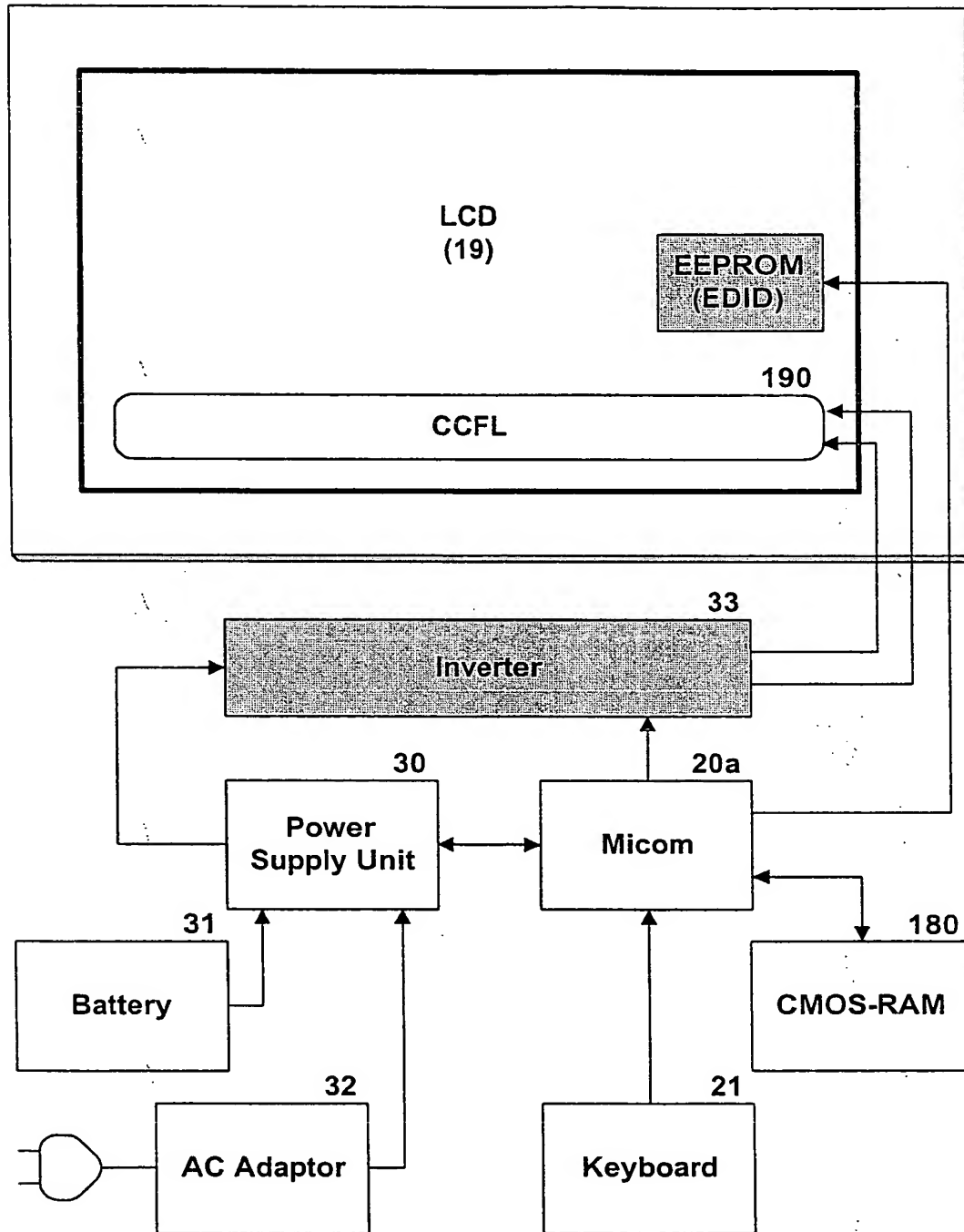
**FIG. 2**  
(Related Art)

*Notebook Computer*



# FIG. 3

## Notebook Computer



# FIG. 4

## Extended Display Identification Data (EDID)

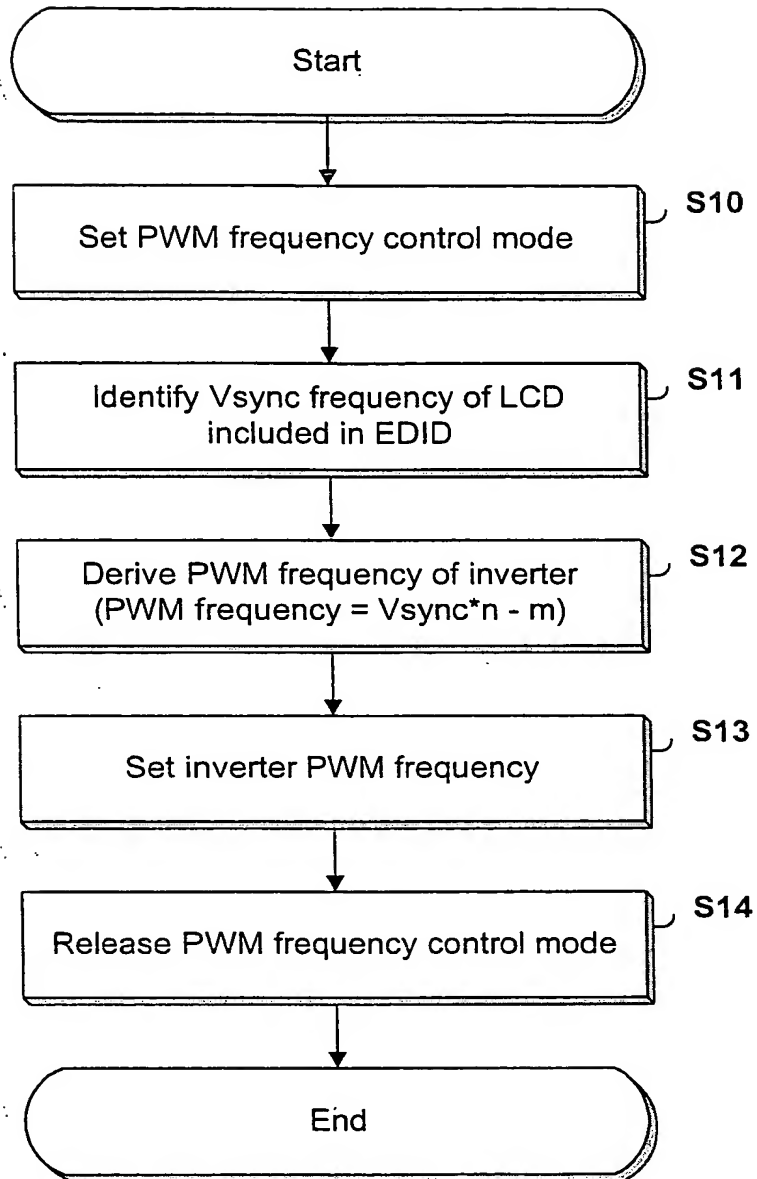
Address	No. bytes		Description
00h	1	Bytes	EDID Structure Version / Revision
01h	7	Bytes	Vendor / Product Identification
01h		2	ID Manufacture
⋮	⋮	⋮	⋮
80h	127	Bytes	Luminance Table & Timing Descriptions
*		x*A	Luminance Table
*		8*B	Range Limits
*		27*C	27-Byte - Detailed Range Limits
*		4*D	4-Byte Timing Codes
*		18*E	18-byte Detailed Timing Descriptions
*		X	$X=127 - (x*A+8*B+27*C+4*D+18*E)$
FFh	1	Byte	Checksum

# FIG. 5

## Display timing range limits

8	Bytes	Bit	Description
	1	7-0	Min Frame / field rate in Hz
	1	7-0	Max Frame / field rate in Hz
	1	7-0	Min line rate in kHz
	1	7-0	Max line rate in kHz
	1	7-0	Lower bits frame / field & line rate
	1	7-0	Min pixel rate in MHz
	1	7-0	Max pixel rate in MHz
	1	7-4	Upper bits min pixel rate
		3-0	Upper bits min pixel rate

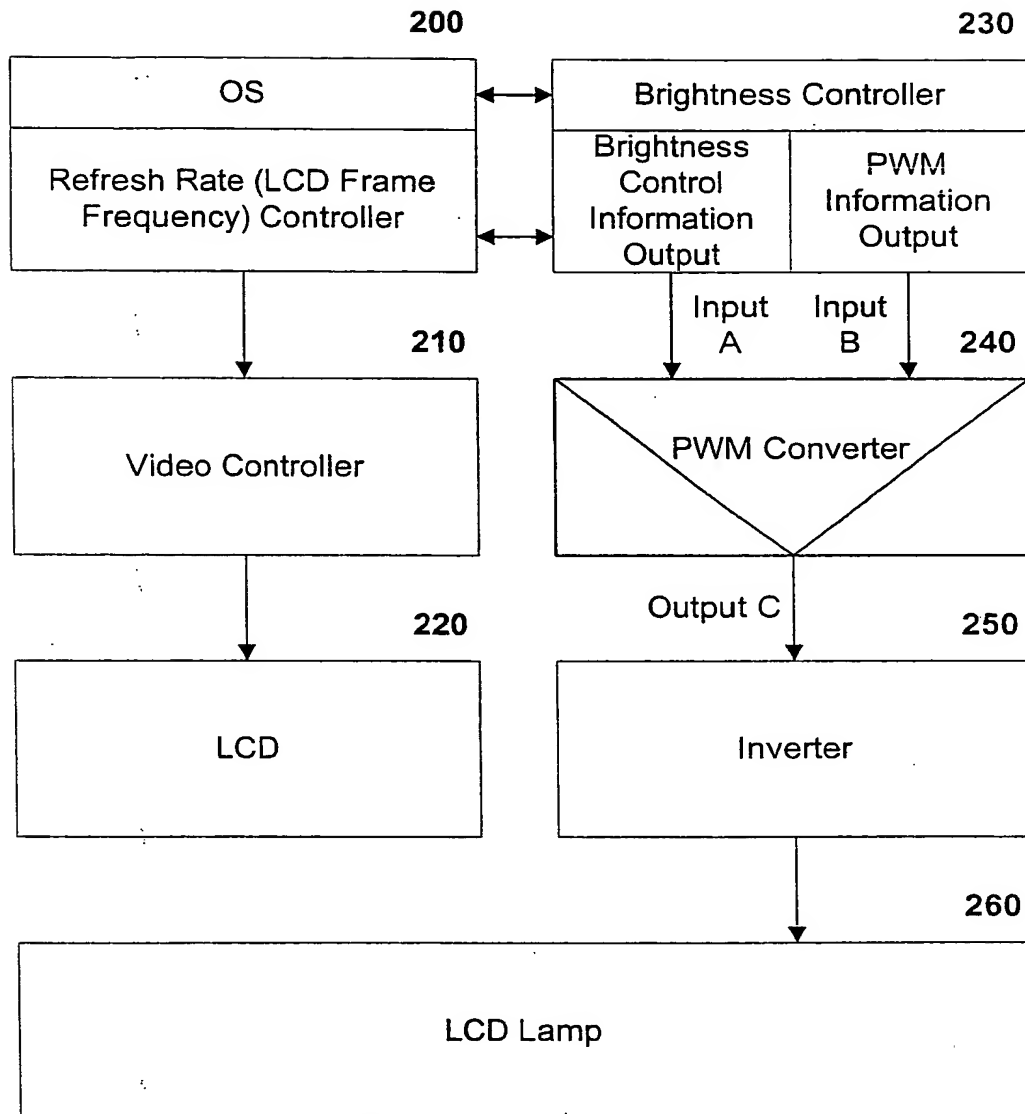
**FIG. 6**



# FIG. 7

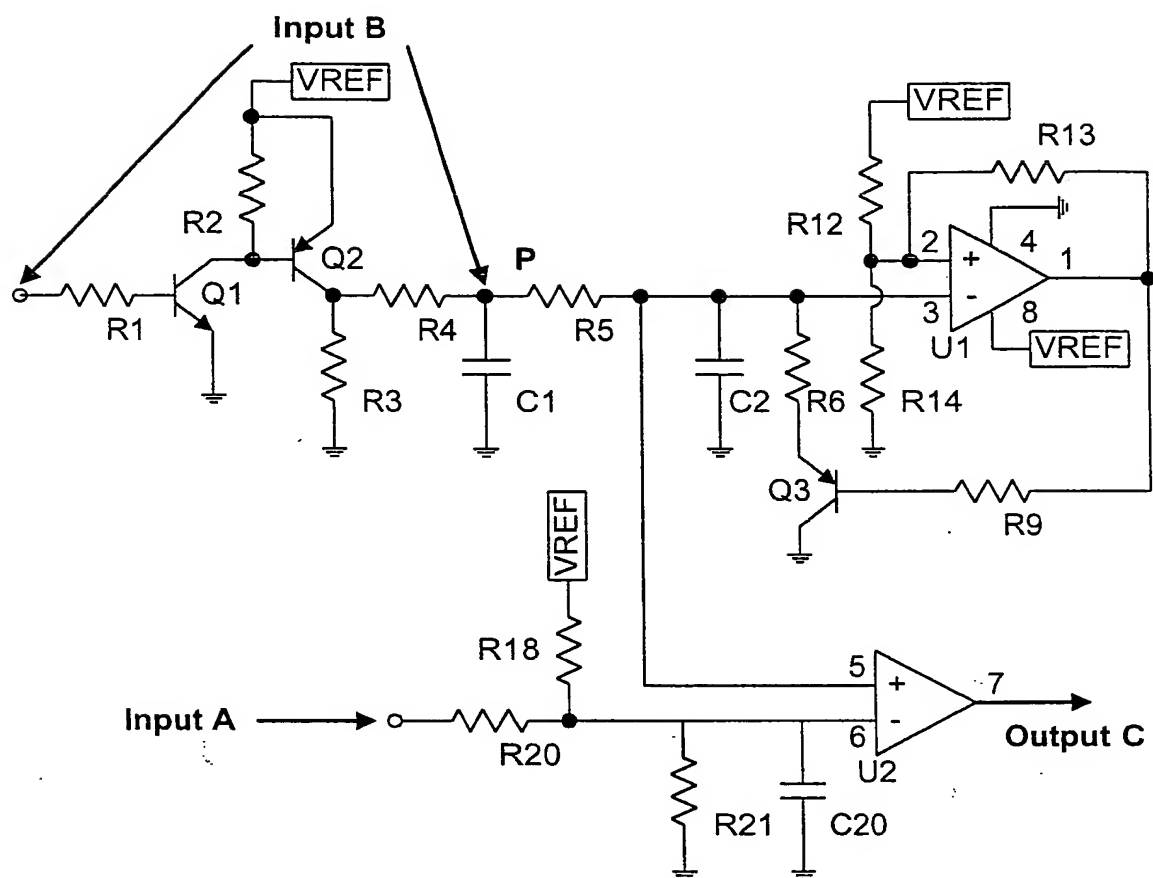
LCD Refresh Rate	Output PWM	LCD Refresh Rate	Output PWM	LCD Refresh Rate	Output PWM
60	270	53	238.5	46	207
59	265.5	52	234	45	202.5
58	261	51	229.5	44	198
57	256.5	50	225	43	193.5
56	252	49	220.5	42	189
55	247.5	48	216	41	184.5
54	243	47	211.5	40	180

**FIG. 8**





**FIG. 9**



# FIG. 10

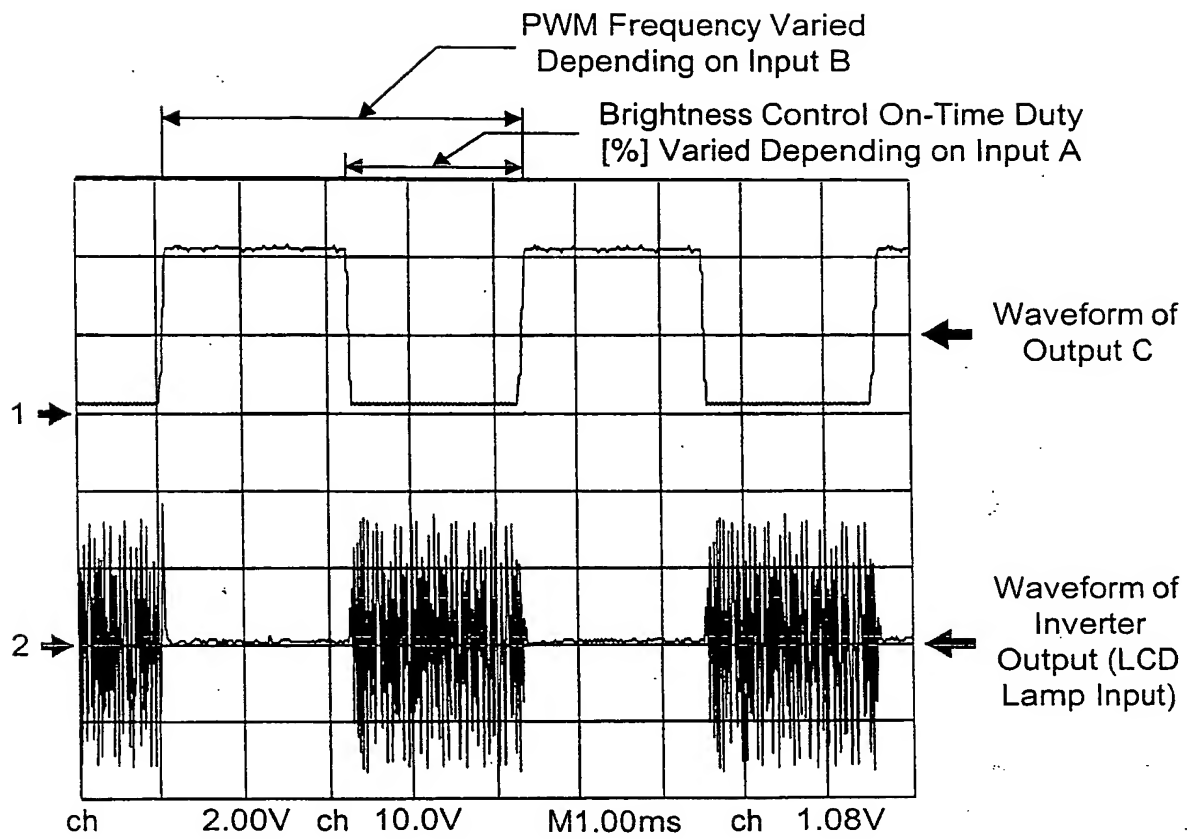


FIG. 11

LCD Refresh Rate	Optimum PWM	DC Voltage	Output PWM	LCD Refresh Rate	Optimum PWM	DC Voltage	Output PWM	LCD Refresh Rate	Optimum PWM	DC Voltage	Output PWM
		3.300	272.0					46	207	1.083	206.8
60	270	3.248	270.5	53	238.5	2.166	238.7			1.031	205.3
		3.197	269.0			2.114	237.1			0.980	203.8
		3.145	267.5			2.063	235.6			0.928	202.3
59	265.5	3.094	265.9	52	234	2.011	234.1	45	202.5	0.877	200.8
		3.042	264.4			1.959	232.6			0.825	199.3
		2.991	262.9			1.908	231.1			0.774	197.7
58	261	2.939	261.4	51	229.5	1.856	229.6	44	198	0.722	196.2
		2.888	259.9			1.805	228.0			0.670	194.7
		2.836	258.4			1.753	226.5			0.619	193.2
57	256.5	2.784	256.8	50	225	1.702	225.0	43	193.5	0.567	191.7
		2.733	255.3			1.650	223.5			0.516	190.2
		2.681	253.8			1.599	222.0			0.464	188.6
56	252	2.630	252.3	49	220.5	1.547	220.5	42	189	0.413	187.1
		2.578	250.8			1.495	219.0			0.361	185.6
		2.527	249.3			1.444	217.4			0.310	184.1
55	247.5	2.475	247.8	48	216	1.392	215.9	41	184.5	0.258	182.6
		2.423	246.2			1.341	214.4			0.206	181.1
		2.372	244.7			1.289	212.9			0.155	179.5
54	243	2.320	243.2	47	211.5	1.238	211.4	40	180		
		2.269	241.7			1.186	209.9				
		2.217	240.2			1.134	208.3				